

題號： 56
科目： 地球歷史
節次： 7

國立臺灣大學 115 學年度碩士班招生考試試題

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A. 名詞解釋，每題 5 分 (中英文回答皆可)

1. Panthalassa
2. Small shelly fossil
3. Ice rafted debris
4. Coevolution
5. Angiosperms
6. Triple junction
7. Faint Young Sun Paradox
8. Mass Extinction

B. 問答題，每題 6 分 (中英文回答皆可)

1. Briefly outline origin, composition, and fate of Earth's first, second, and third atmospheres.
2. Which organism produced most of the Precambrian oxygen, what are the dome-shaped sedimentological structures that formed in shallow waters called, and why are these structures rare today?
3. Describe the main stages of a Wilson Cycle.
4. Why is a human more closely related (phylogenetically) to a snake, than a snake is to a shark?
5. Briefly describe three characteristics of the Cambrian Explosion.
6. During the Mesozoic Marine Revolution shell-crushing marine vertebrates evolved. How did the invertebrate fauna respond to this increased predation pressure?
7. List three different causes believed to have caused mass-extinctions during Earth's history.
8. Name and briefly describe the three orbital parameters that control Earth's climate on longer time scales (tens of thousands to million years).
9. Name three necessary adaptations that allowed the first plants to colonize land.
10. Which main tectonic plates are responsible for the formation of the following mountain ranges: 1) The Alps; 2) The Himalayas; 3) The Central Range in Taiwan?

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